

Hi:

I forgot to include (partial) answers to the questions I sent yesterday:

1.3 $x_+ = \frac{1}{3}, A(x_+) = \frac{\sqrt{3}}{18}$

2.2 $x_- = \frac{1}{3}, B(x_-) = \frac{2}{9}\sqrt{3}$

3 $L = (a^{2/3} + b^{2/3})^{3/2}$

4 $\text{dist}^2 = H(1 - H)$

5 $x = \frac{1}{2} - \frac{\sqrt{6}}{6}$

6 $f(x) = x^{2a/(1+a)}$

It also occurred to me to ask **everyone** to come to class with an answer for question **1.1**. I suggest this because writing formal proofs is actually not very different from composing lucid prose (or a compelling legal brief, for example). People often have problems writing proofs because they lack experience writing clearly, in the first place.

I hope you all weathered the storm successfully. Between hurricanes, earthquakes, politics, . . . , we live in very interesting times!

Sincerely,

Jack